



IS 17373 : 2000

Geogrids used in reinforced soil retaining structures

IS 17373 specifies the requirements for **geogrids** used in reinforced soil retaining structures. Geogrids are high-strength, polymeric grids designed to reinforce soil, improve its strength, and stabilize various structures such as retaining walls, embankments, and slopes. These grids enhance the load-bearing capacity of the soil, making construction safer and more durable.

Quality Parameters

Especially in the construction industry, **good quality geogrids** must demonstrate key characteristics such as high tensile strength, durability, resistance to environmental factors (like UV rays and chemicals), and long-term stability. It is also expected geogrids to have consistent dimensions, minimal elongation, and reliable performance over the structure's lifespan. Additionally, they should withstand varying loads and adverse weather conditions without degrading.

IS 17373 ensures that geogrids used in reinforced soil retaining structures meet these quality expectations. The standard provides **clear specifications for material properties**, such as minimum tensile strength, elongation limits, and durability against environmental degradation. It also includes **testing procedures** to verify the performance of geogrids under real-world conditions, ensuring that they are fit for long-term use.

By adhering to IS 17373, manufacturers must produce geogrids that meet stringent quality benchmarks, giving consumers confidence in their reliability. The standard helps ensure consistency in product performance, reducing the risk of structural failures and increasing the safety and lifespan of reinforced soil structures. Thus, it plays a crucial role in safeguarding construction investments and maintaining structural integrity.